



Pollution Prevention Project Proposal

Title: Aerosol Can Disposal System

Benefits at a glance:

- ✓ *Elimination of potential of non-empty cans from entering the municipal waste stream.*
- ✓ *Eliminates potential regulatory fines as a result of discovering non-empty cans mixed with empty cans awaiting disposal.*
- ✓ *Eliminates the need for any aerosol can to be shipped out as hazardous waste.*

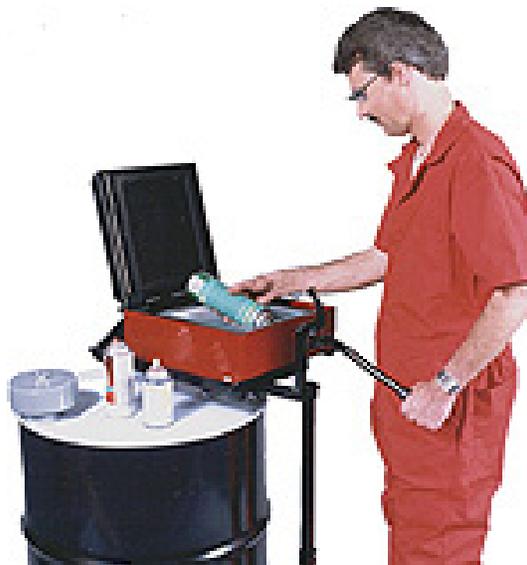


Figure 1 Picture of Aerovent 3 mounted on a 55 gallon drum.

Description:

The Aerovent 3 aerosol can disposal system eliminates the expense of treating aerosol cans as hazardous waste, allowing them to be recycled as scrap steel or simply discarded. The system is mounted any 30 or 55 gallon drum, it punctures and drains up to three cans at a time in less than 10 seconds. The system has non-sparking carbide tips, grounding straps to avoid worker injury. An activated carbon filter avoids worker exposure to harmful vapors.

In the past year the C-A Department has disposed of 66 lbs. of aerosol cans containing hazardous waste. At a cost of \$18.50/lb. This is just over \$1200.00. The majority of this cost could have been avoided with the Aerovent system in place.

The Aerovent provides an excellent payback and it provides a method for the department to ensure that all “empty” cans are truly empty of residual materials and pressure. This will also ensure that compliance is maintained and will avoid findings from an external audit.

Benefits-at-a-Glance

- Eliminates 20 pounds of hazardous waste per year;
- Saves over \$991.00 annually from reduced waste and waste cost
- Enables additional metals recycling
- Ensures that no cans leaving the department have residual materials or pressure.

Project Title: Aerosol Can Disposal System

Project Features:

Host Site	Brookhaven National Laboratory
Host PSO	Office of Science
Dept/Div	Collider Accelerator Dept.
Point of Contact	Melvin Van Essendelft, Bldg. 911A, X2905, mvaness@bnl.gov
Benefits	Reduces the volume of hazardous waste. Enables greater metals recycling. Eliminates potential of non-empty cans from entering the municipal waste stream with ultimate migration to soil and /or groundwater.

Project Type	Waste Minimization
Primary Wastes Avoided	Hazardous spray paint & spay chemical wastes
Projected Annual Waste Reduction	20 lbs.
Projected Useful Life	Annually recurring
Requested Capital Funds	Equipment costs \$ 1700.00 (For two – to ensure compatibility of chemicals and paints in the appropriate barrels)
Requested Expense Funds	0
TOTAL PROJECT COST	1700.00
Projected Annual Savings	Current Waste Disposal Cost: 66 lbs X \$18.50/lb = \$1221.00 Cost of Disposal at 55gallon disposal price: 46 lbs. X 5.00/lb = 230.00 Waste Disposal Savings: 20 lbs X 18.50/lb = \$370.00, 46 lbs. X 5.00/lb = 230.00 vs. 46 lbs. X 18.50 = 851.00 (851.00 – 230.00 = 621.00) SAVINGS [YEARLY]: \$991.00/year
PAYBACK PERIOD	About 23 months (for two)
Non-financial Benefits	
Regulatory Drivers	RCRA Pollution Prevention Requirements, DOE order, "Greening the Government".
Critical Outcomes	
Implementation Schedule	60 days after funding is approved